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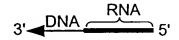
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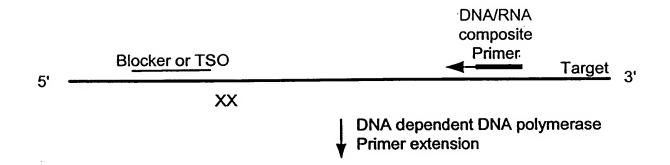
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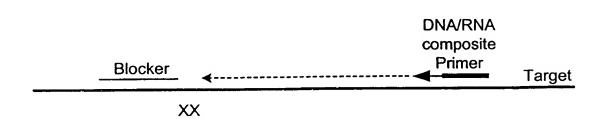
Title: METHODS AND COMPOSITIONS FOR LINEAR ISOTHERMAL AMPLIFICATION OF POLYNUCLEOTIDE SEQUENCES USING A RNA DNA COMPOSITE PRIMER

FIGURE 1A

DNA/RNA composite Primer





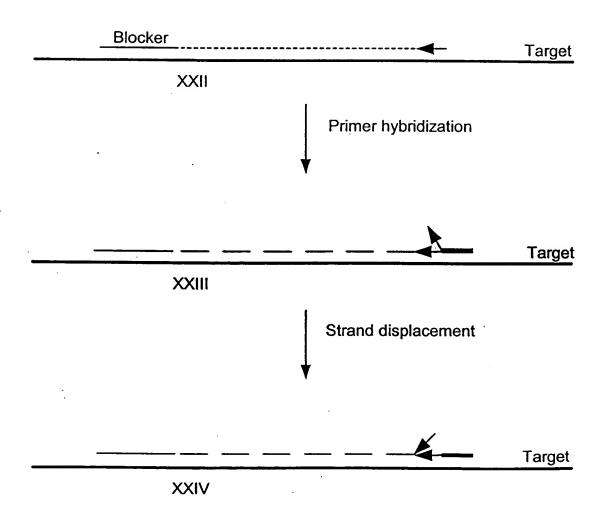


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FIGURE 1B

RNase H cleavage of the RNA portion of the extension product



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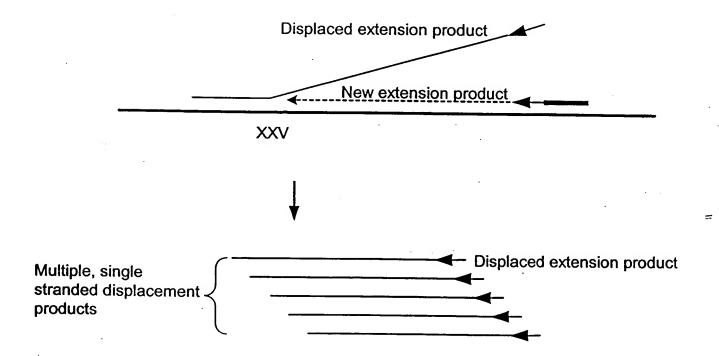
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FIGURE 1C

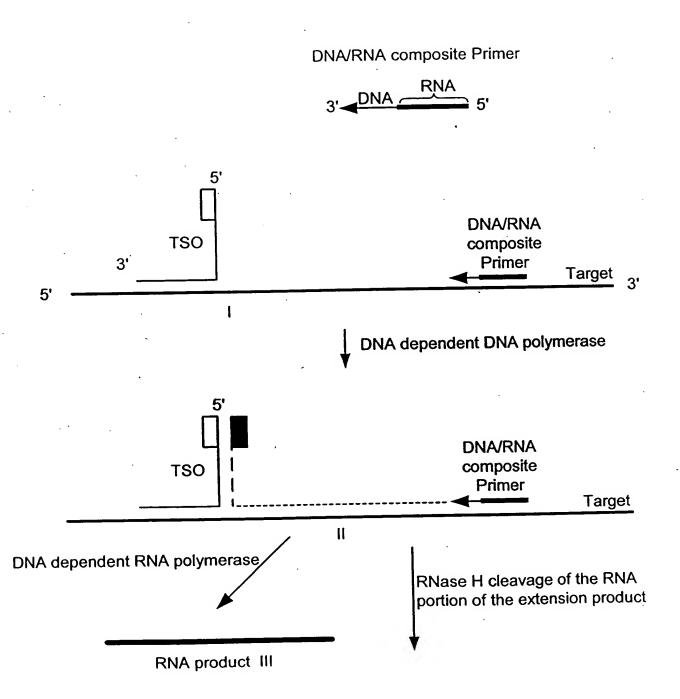
Primer extension strand displacement

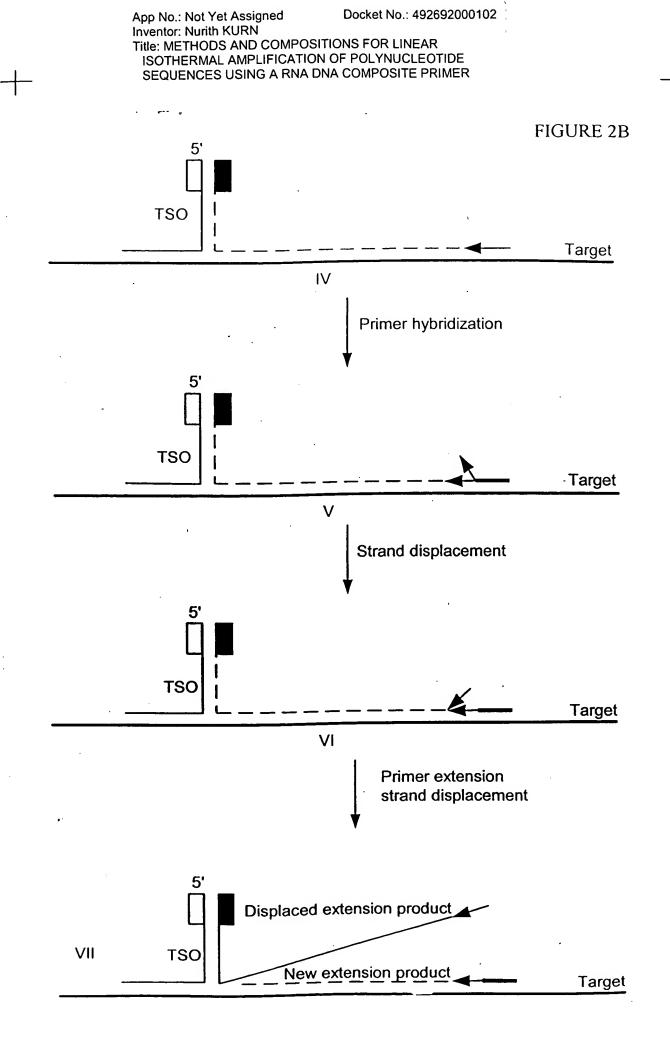


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FIGURE 2A

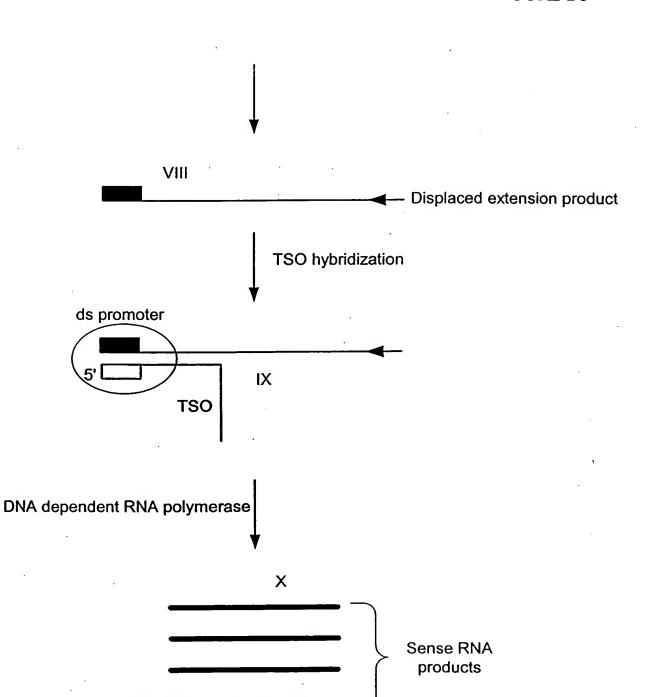




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FIGURE 2C

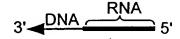


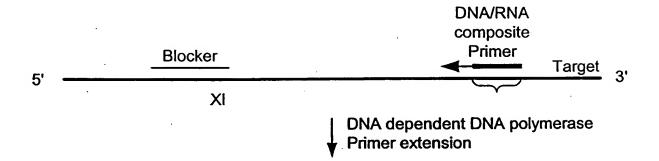
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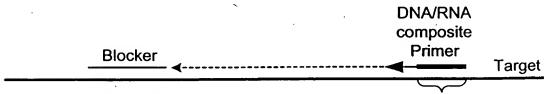
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FIGURE 3A

DNA/RNA composite Primer







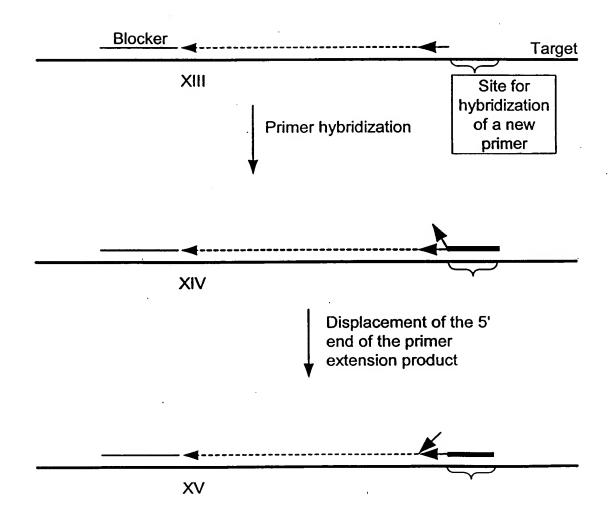
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FIGURE 3B

RNase H cleavage of the RNA portion of the extension product

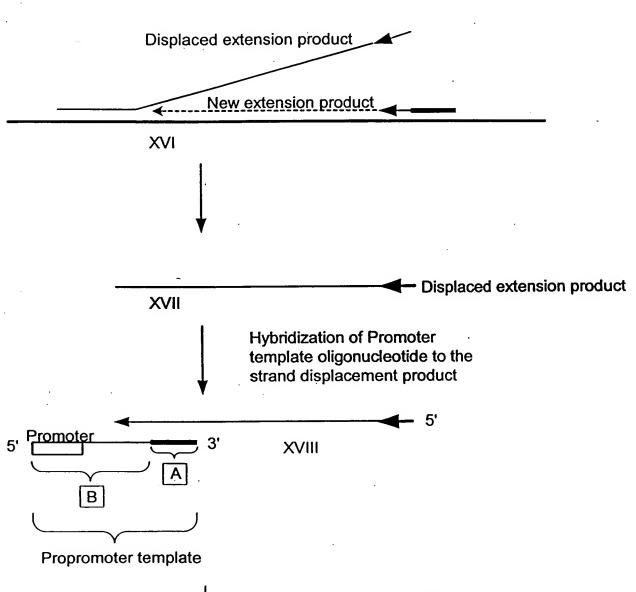


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FIGURE 3C

Primer extension strand displacement



DNA polymerase extension of displaced product

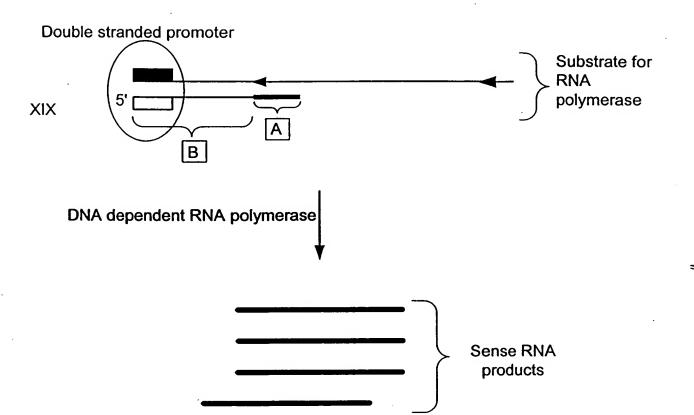
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FIGURE 3D



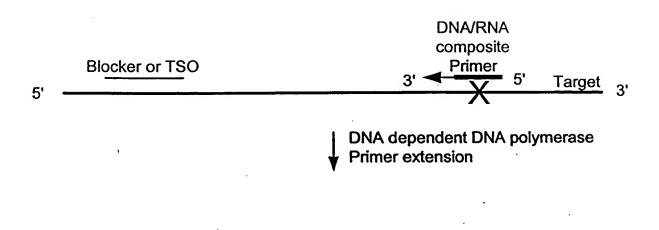
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FIGURE 4A

X denotes a mutation on the target DNA at a site complementary to the 5' RNA portion of the primer.

As shown, amplification of the target NA is blocked when a mutation is present.



Blocker or TSO Primer
Target

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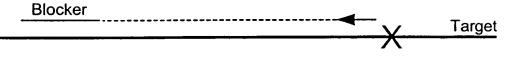
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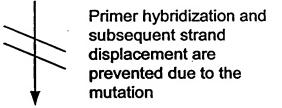
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FIGURE 4B

RNase H cleavage of the RNA portion of the extension product







500 bp

300 bp

3

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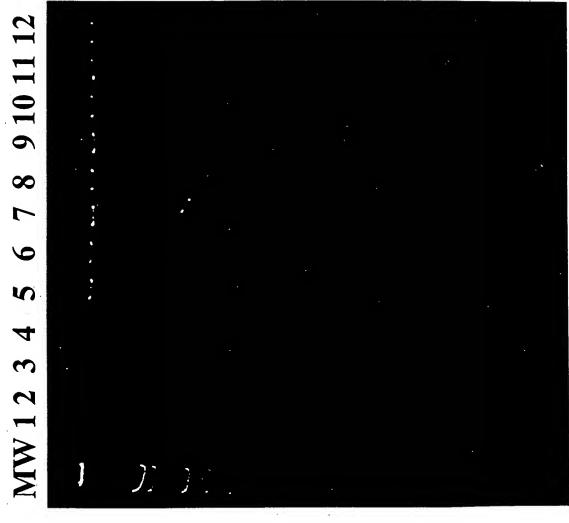
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RNA product



300 bp 200 bp

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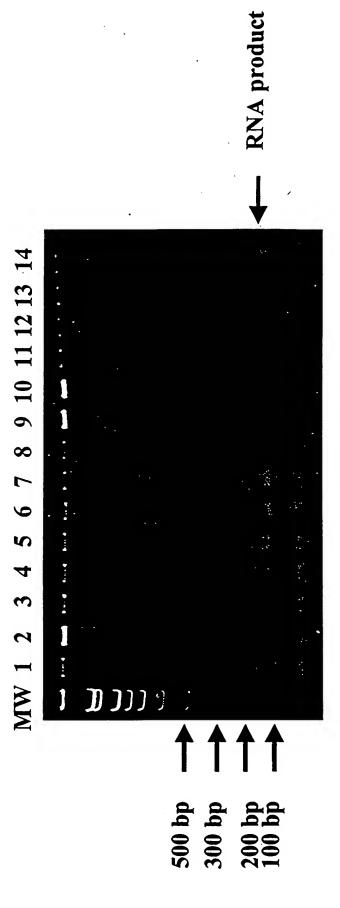
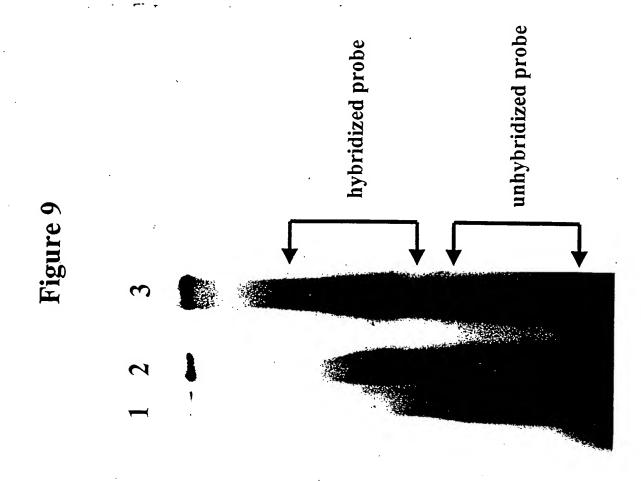


Figure 8

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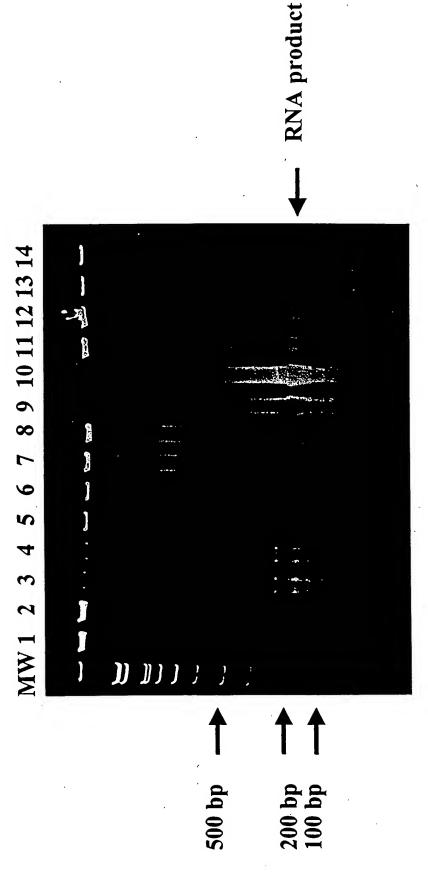


Figure 10